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SUPPLEMENT TO REPORT NO. 25X1X

1. When experiments were made with V-2 power plants, a jet of flame of a white to light yellow color which developed a cloud of smoke of the same color was seen.
2. During the period from January 1948 to January 1949 an average of one or two but never more than four experiments were made daily between 8 a.m. and 5 p.m. (1) The frequency at which the experiments were made increased during 1948. At first the experiments were made every two weeks, then every week and finally once every day. In the summer of 1948 a combustion period of about five minutes was reached for the first time, while previously this combustion period was only one minute. (2)
3. About 15 minutes prior to each experiment a hose 4 to 6 cm in diameter was laid from the silver-gray containers just south of the test stand to the second floor of the stand. While the fuel was being pumped to the test stand the hose was covered with a white coating. The jet of flame seen when the experiment was started was of a yellow-blue tint which gradually changed to a reddish color. The light yellow-blue flame was seen for only a short time. The reddish flame was gradually enveloped by smoke. The smoke, which developed immediately after the tongue of flame was seen, had a blue-gray color which then turned to white. The smell of the smoke was similar to that developed by bursting artillery shells.
4. While unloading railroad cars arriving from Germany in 1947/1948, source saw several V-2s. According to German engineers, former German V-weapons were further developed in Plant No 456. V-weapons of various types were also manufactured there. Carboys lettered Hydrogen Peroxide, others filled with nitric acid, and cans lettered Anilin were also unloaded and taken to Plant No 456. (3)
5. While the test stand, which was also called launching tower, was being built, a factory for the production of fluid oxygen also was under construction.

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6. The power plants were not manufactured in plant No 456 but arrived from Moscow by special truck.
7. Source learned from German Foreman Haase (fnu) that the power plants at the test stand were burning liquid oxygen, which was produced in the new oxygen plant. He said that some other unidentified chemicals were added. (4)
8. It was learned from German engineers that the Soviets at first experienced difficulties with gaskets allegedly fitted in the power plants. These difficulties were caused by the high degree of cold characteristic of liquid oxygen. While these difficulties were soon overcome, the composition of the chemicals was said to be still unsatisfactory. The chemicals required for the propulsive charges of the German V-weapons were manufactured at IG-Farben Plants. The Soviets allegedly did not yet know the process of manufacturing these materials in early 1949. However, German professors working in a Moscow institute reportedly had made so much progress in this field that the Soviets, according to the German engineers, will soon have the same propulsive charges readily available to the Germans. (5)

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Comments.

- (1) On the basis of available information it is believed that the test stand was not put into operation before the summer of 1949 and the four to five power plants were tested daily at the end of that year.
- (2) The combustion period was stated differently by the interrogated PAs; however, the general estimate was one minute.
- (3) These carboys were reported previously. It is known that experiments with other fuels were made in the so-called laboratory under the supervision of Dr. Putze (fnu). Nitric acid has also been used for these experiments.
- (4) According to other sources, the oxygen plant built in the area of Plant No 456 was already in operation at the end of 1948.
- (5) Details on the results of these experiments designed to raise the efficiency of the V-weapons are not available. The German organization formerly employed at Plant No 456 has returned to the Soviet Zone of Germany.

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